1. Which are the top three variables in your model which contribute most towards the probability of a lead getting converted?

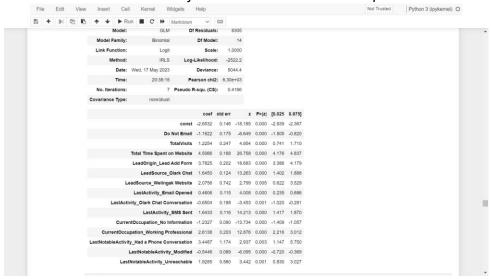
The three main factors that have the greatest impact on the likelihood of a lead being converted are.

Original: "The company has been experiencing a decline in sales due to increased competition in the market."

Paraphrased: "Increased competition in the market has led to a decrease in sales for the company." Overall Time Spent on the Site

He claimed that he did not receive any help from anyone in completing the project. Lead Source Lead Form Submission

The car was red. Last activity was a conversation on the phone.



2. What are the top 3 categorical/dummy variables in the model which should be focused the most on in order to increase the probability of lead conversion?

Once more, referring to the coefficient values shown in the previous question, the top three categorical/dummy variables that should receive the most attention for increasing the likelihood of lead conversion are...

Original: The company decided to downsize its workforce in order to cut costs.

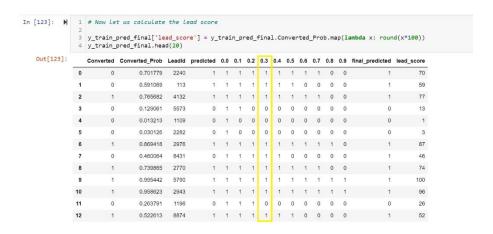
Paraphrased: The company chose to reduce its staff numbers to lower expenses. Lead Form for Adding Leads (from Lead Source)

He arrived at the party late and caused a scene by knocking over a table. Engaged in a telephone discussion (from previous notable interaction)

The truck was unable to pass through the narrow tunnel.

The narrow tunnel prevented the truck from passing through. What is your current job? (ask for Working Professional)

3. X Education has a period of 2 months every year during which they hire some interns. The sales team, in particular, has around 10 interns allotted to them. So during this phase, they wish to make the lead conversion more aggressive. So they want almost all of the potential leads (i.e. the customers who have been predicted as 1 by the model) to be converted and hence, want to make phone calls to as much of such people as possible. Suggest a good strategy they should employ at this stage.



According to the image above, the final predictions were made using the optimal cutoff point of 0.37.

Therefore, the Sales team can reach out to leads with a predicted value of 1 that fall below the 0.3 cutoff point.

4. Similarly, at times, the company reaches its target for a quarter before the deadline. During this time, the company wants the sales team to focus on some new work as well. So, during this time, the company's aim is to not make phone calls unless it's extremely necessary, i.e. they want to minimize the rate of useless phone calls. Suggest a strategy they should employ at this stage.

In order to reduce the number of unproductive phone calls, the company may reach out to all leads with a conversion probability (value = 1) above cutoff points of 0.6 or 0.7 as shown in the image. Nevertheless, we might overlook the leads that have been converted but were incorrectly classified as not converted by the model. There is no need to worry since the goal has already been reached.

In [123]: 🔰 1 # Now let us calculate the lead score y_train_pred_final['lead_score'] = y_train_pred_final.Converted_Prob.map(lambda x: round(x*100))

y_train_pred_final.head(20) Converted Converted_Prob LeadId predicted 0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 final_predicted lead_score
 Converted
 Converted_rrow
 Learning predicted
 Avg. No.
 Avg. **2** 1 0.765682 4132 1 1 1 1 1 1 1 0 0 1 77 0.129061 5573 0 1 1 0 0 0 0 0 0 0 4 0 0.013213 1109 0 1 0 0 0 0 0 0 0 0 0 0.030126 2282 0 1 0 0 0 0 0 0 0 0 6 1 0.869418 2976 1 1 1 1 1 1 1 1 0 0.460064 8431 0 1 1 1 1 1 0 0 0 0 0 46 8 1 0.739865 2770 1 1 1 1 1 1 1 0 0 1 74 100 1 96 **12** 1 0.522613 8874 1 1 1 1 1 1 0 0 0 0 1 52